

ABSTRACT

5 A waste stream separator separates liquid and solid waste from
a conveying air stream. The liquid and solid waste are first separated
from the air stream by gravity and filtration in a removable primary
waste barrel. The air is then drawn through a secondary waste barrel
and vacuum chamber with a moisture separator and water-resistant
HEPA filter to produce dry, filtered air at the output port of the system.
The liquid passing through the filter media in the primary waste barrel
and the liquid collecting in the secondary waste barrel can be
10 withdrawn for further treatment. When filled with waste, the primary
waste barrel can be readily removed and sealed for disposal. If
necessary, polyacrylate can be injected into the primary waste barrel
to convert any remaining liquid to a solid gel prior to disposal.